

ADDITIONS TO THE FLORA OF CAPE BRETON HIGHLANDS NATIONAL PARK, NOVA SCOTIA

HAROLD R. HINDS

ABSTRACT

Ten species and one hybrid are here reported as new or from additional sites in Cape Breton Highlands National Park. The hybrid *Solidago bicolor* × *S. canadensis* is reported for the first time.

Key Words: vascular plants, new records, Cape Breton

While doing field work for a study of the rare plants of Cape Breton Highlands National Park from August 1980 to August 1981, the following vascular plants were found that had not previously been reported from Cape Breton or had only been found once or twice.

Three species are here reported as new to Nova Scotia and are marked with an asterisk. The species are listed in alphabetical order with their collection data and brief distributional notes. The acronym, CBHNP, refers to the herbarium of Cape Breton Highlands National Park, Ingonish Beach, Nova Scotia, BOC 1LO.

***Anemone multifida* Poir.**

Uncommon on dry loose, coarse, gravelly conglomerate ledges in small crevices and on shelves, area of Le Buttereau and La Grande Falaise about 1 km north of park entrance, Inverness County, 15 June, 1981, *H. Hinds 4911* (CBHNP); gravelly bluff north of Chéticamp, Inverness County, 8 July, 1938, *A. S. Pease 26,627* (GH).

This latter collection by A. S. Pease is certainly from the same area, but was never published. It was misplaced in the Gray herbarium and so overlooked by previous researchers.

The nearest populations to this station on the mainland are in the vicinity of Hartland, New Brunswick on gravel strands of islands in the Saint John River. This species also occurs in Newfoundland (Rouleau, 1978).

****Anemone parviflora* Michx.**

A small colony on north-northeast facing wet limestone cliffs below waterfall, Corney Brook gorge south of French Lake, Inverness County, 10 June, 1981, *H. Hinds 4477* (CBHNP).

This species occurs in Newfoundland (Rouleau, 1978) and on the mainland the nearest population occurs on wet gypsum near Wilson Brook, Albert Mines, Albert County, New Brunswick.

Diapensia lapponica L.

Rare on horizontal granitic shelf facing north on high shoulder of upper Chéticamp River gorge above series of waterfalls, Inverness County, 25 August, 1981, *H. Hinds 4541* (CBHNP).

One other collection is known from Nova Scotia in Victoria County, Lockhart Brook, tributary of Salmon River (Smith & Erskine, 1954). Not known from New Brunswick. Closest populations in Newfoundland (Rouleau, 1978) and the Gaspé (Scoggan, 1950).

Draba norvegica Gunner var. **clivicola** (Fern.) Boivin

Rare on dry shelves of limestone ledges close to upper Corney Brook south of French Lake, Inverness County, 24 July, 1981, *H. Hinds 4480* (CBHNP).

Previously reported from Cape Breton on dry, exposed shelves of limestone cliffs, Big Southwest Brook (Smith & Schofield, 1952). Also reported from Big Intervale, Margaree, Inverness County (Macoun, 1898). Reported from the Gaspé (Scoggan, 1950) but from neither New Brunswick nor Newfoundland.

***Drosera rotundifolia** L. var. **comosa** Fern.

Rare on calcareous gravels, east shore of Paquette Lake, Victoria County, 12 August, 1980, *H. Hinds 3818* (CBHNP).

Not previously reported from Nova Scotia. Nearest populations are reported from marly bogs at the mouth of Grand River, Gaspé (Scoggan, 1950) and from Ross Island, Grand Manan archipelago, New Brunswick (Weatherby & Adams, 1945).

Minuartia groenlandica (Retz.) Ostenf.

Rare on south-southeast facing dryish, loose calcareous ledges, Corney Brook gorge south of French Lake, Inverness County, 15 August, 1981, *H. Hinds 4471* (as *Arenaria groenlandica*) (CBHNP).

Nearest populations in Newfoundland (Rouleau, 1978) and in Halifax County, Nova Scotia (Roland & Smith, 1969).

Oxytropis campestris (L.) DC. var. **johannensis** Fern.

Frequent on open, gravelly scree, seaward side of southeast tip of promontary north of Jumping Brook, Inverness County, 12 August, 1980, *H. Hinds 3205* (CBHNP); rare in rock scree, south shoulder of

La Grande Falaise about 1 km north of park entrance, Inverness County, 10 June, 1981, *H. Hinds 4912* (CBHNP).

Reported in Nova Scotia from Saint Paul Island off the northern tip of Cape Breton (Perry & Roscoe, 1931) and from Cape d'Or in Cumberland County (Schofield, 1955). This taxon is also found in Newfoundland (Rouleau, 1978) and in New Brunswick on gravel strands of the Saint John and Restigouche Rivers, as well as the Gaspé and northern Maine.

***Pinguicula vulgaris* L.**

Rare on moist south-southeast facing ledges above large waterfall, upper Corney Brook gorge south of French Lake, Inverness County, 1 August, 1981, *H. Hinds 4529* (CBHNP); frequent on wet limestone ledges, upper Chéticamp River, Inverness County, 1 August 1981, *H. Hinds 4529* (CBHNP).

Also reported in Nova Scotia from Saint Paul Island (Perry & Roscoe, 1931) and from Big Southwest Brook, Inverness County (Hounsell & Smith, 1968). This species is found in Newfoundland (Rouleau, 1978) and on the Restigouche River in Northern New Brunswick.

****Rhododendron lapponicum* (L.) Wahl.**

Rare on south facing shelves of calcareous ledge, Corney Brook gorge south of French Lake, Inverness County, 19 June 1981, *H. Hinds 4302* (CBHNP).

Nearest populations reported from Newfoundland (Rouleau, 1978), the Gaspé (Scoggan, 1950), and from alpine mountain summits of northern New England (Seymour, 1969). Not known from New Brunswick.

***Salix uva-ursi* Pursh**

Rare and local on south facing shelves of calcareous ledge, Corney Brook gorge south of French Lake, Inverness County, 19 June 1981, *H. Hinds 4305*, 14 July, 1981, *H. Hinds 4478* (CBHNP).

Previously reported in Nova Scotia from Saint Paul Island (Perry & Roscoe, 1931). The nearest other populations occur in Newfoundland (Rouleau, 1978), the Gaspé (Scoggan, 1950) and the mountains of New York (Mitchell *et al.* 1980) and northern New England (Seymour, 1969). Not known from New Brunswick.

***Saxifraga aizoides* L.**

Locally abundant on north facing limestone ledges dripping with water from above and also within the spray of a large waterfall,

Corney Brook gorge south of French Lake, Inverness County, 14 August 1980, *H. Hinds* 3755 (CBHNP).

Previously reported in Nova Scotia only from the Big Southwest Brook, Inverness County (Smith & Schofield, 1952). Nearest other populations occur in Newfoundland (Rouleau, 1978), the Gaspé (Scoggan, 1950), the mountains of New York (Mitchell *et al.* 1980), and Vermont (Countryman, 1978). Not known from New Brunswick.

***Solidago bicolor* L. × *S. canadensis* L.**

One large plant on open gravelly roadside along the Chéticamp River about 2 km above Chéticamp campground, Inverness County, 11 August 1980, *H. Hinds* 3828 (CBHNP, UNB).

The hybrid occurred with both parents growing nearby and combined the characteristics of both. This hybrid has apparently not previously been reported anywhere.

LITERATURE CITED

- COUNTRYMAN, W. D. 1978. Rare and endangered vascular plants in Vermont. The New England Botanical Club, Cambridge, Massachusetts. 68 pp.
- HOUNSELL, R. W. AND E. C. SMITH. 1968. Contributions to the flora of Nova Scotia. IX: Habitat studies of arctic-alpine and boreal disjunct species. *Rhodora* **70**: 176-191.
- MACOUN, J. M. 1898. Geological Survey of Canada Annual Report, Nova Scotia II: 194A-200A.
- MITCHELL, R. S., C. J. SHEVIK, AND J. K. DEAN. 1980. Rare and endangered vascular plant species in New York State. New York State Museum, Albany. 38 pp.
- PERRY, L. M. AND B. ROSCOE. 1931. Botanical Explorations of Saint Paul Island, Nova Scotia. *Rhodora* **33**: 105-126.
- ROLAND, A. E. AND E. C. SMITH. 1969. The Flora of Nova Scotia. Nova Scotia Museum, Halifax, Nova Scotia. 743 pp.
- ROULEAU, E. 1978. List of the vascular plants of the Province of Newfoundland (Canada). Oxen Pond Botanic Park, St. John's, Newfoundland.
- SCHOFIELD, W. B. 1955. Contributions to the Flora of Nova Scotia: V. Results of exploration in Cumberland County. *Rhodora* **57**: 301-310.
- SCOGGAN, H. J. 1950. The flora of Bic and the Gaspé Peninsula, Québec. National Museum of Canada. Bulletin 115.
- SEYMOUR, F. C. 1969. The Flora of New England. C. E. Tuttle Co., Rutland, Vt. 596 pp.
- SMITH, E. C. AND D. S. ERSKINE. 1954. Contributions to the Flora of Nova Scotia IV. *Rhodora* **56**: 242-252.

SMITH, E. C. AND W. B. SCHOFIELD. 1952. Contributions to the Flora of Nova Scotia. *Rhodora* **54**: 220-228.

WEATHERBY, C. A. AND J. ADAMS. 1945. A list of the vascular plants of Grand Manan, Charlotte County, New Brunswick. Contributions from the Gray Herbarium of Harvard University, CLVIII.

CONNELL MEMORIAL HERBARIUM,
DEPARTMENT OF BIOLOGY
UNIVERSITY OF NEW BRUNSWICK, FREDERICTON.
NEW BRUNSWICK. E3B 5A3.